

(TM)



[illegible]

```

VERSION      R73021.1   GI:847053
KEYWORDS     EST.
SOURCE       Human.
ORGANISM     Homo sapiens
              Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;
REFERENCE    Eutheria; Primates; Catarrhini; Homnidae; Homo.
AUTHORS      Hillier,L., Clark,N., Duboue,T., Elliston,K., Hawkins,M.,
              Holman,M., Hultnan,M., Kucaba,T., Le,M., Lennon,G., Marra,M.,
              Parsons,J., Rifkin,L., Rochling,T., Soares,M., Tan,F.,
              Trevasakis,E., Waterston,R., Williamson,A., Wohlmann,P. and
              Wilson.R.
TITLE        The Mashu-Merck EST Project
JOURNAL      Unpublished (1995)
COMMENT      On May 9, 1995 this sequence version replaced gi:802810.

Contact: Wilson RK
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel.: 314 286 1800
Fax: 314 286 1810
Email: est@watson.wustl.edu
Insert Size: 829
High quality sequence stops: 348
Source: IMAGE Consortium, LNLN
This clone is available royalty-free through LNL ; contact the
IMAGE Consortium (info@image.lnl.gov) for further information.
Insert Length: 829 Std Error: 0.00
Seq primer: MI3RP1
Location/Qualifiers
          .463
/organism="Homo sapiens"
/note="Organ: breast; Vector: pT7A3D (Pharmacia) with a
modified polylinker: Site.1: Not I; Site.2: Eco RI; 1st
strand cDNA was primed with a Not I - oligo(dT) primer [5'
TGTTACCAATCTGAAGTAGGCGGCCGCCTTTTTTTTTTTTTTTT 3'] ,
double-stranded cDNA was ligated to Eco RI adaptors
(Pharmacia), digested with Not I and cloned into the Not I
and Eco RI sites of a modified pTZ19 vector (Pharmacia).
Library went through one round of normalization to a Cot =
230. Library constructed by Bento Soares and M.Fatima
Bonaldo."
/db_xref="Genebank:"GI:570059"
/cd_cfeat="taxon:9606"
/clone-"IMAGE:156379"
/clone_lib-"Soares Breast 2NBHBST"
/sex="Female"
/dev_stage="adult"
/lab_host="DH10B (ampicillin resistant)"
BASE COUNT  107 a 121 c 135 g 97 t           3 others
ORIGIN
Query Match          94.1%; Score 133; DB 30; Length 463;
Best Local Similarity 52.1% Pred. No. 3,936-16;
Matches 25; Conservative 16; Mismatches 7; Indels 0; Gaps 0;

Db      8 AAAAACTCAGCGGTGGAGAGAAGATTCCAGAGCAGCAC 55
Oy      1 AARAAVMSNMNSNGNTGGAARGAARGARTNYTNCAKSMGNAY 48

RESULT      6
LOCUS       AI570386            625 bp mRNA                      EST
DEFINITION  to78g10.x1 NCI-CGAP-Gas4 Homo sapiens CDNA clone IMAGE:2184450 3'
similar to TR:Q99718 Q99718 EPITHELIAL-SPECIFIC TRANSCRIPTION
FACTOR ESE-1A. [I] ; RNA sequence.
ACCESSION   AI570386
MID         94533760
VERSION     AI570386.1 GI:45333760
KEYWORDS     EST.
SOURCE      Human.
ORGANISM    Homo sapiens

```

REFERENCE Eukaryota: Metazoa: Chordata: Craniata: Vertebrata: Mammalia:  
Eutheria: Primates: Catarrhini: Hominoidea: Homo.  
1 (bases 1 to 625)  
AUTHORS NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.  
TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),  
Tumor Gene Index  
JOURNAL Unpublished (1997)  
COMMENT On Mar 16, 1998 this sequence version replaced gi:2961853.

Contact: Robert Strausberg, Ph.D.  
Tel: (301) 496-1550  
Email: Robert.Strausberg@nih.gov  
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.  
Emmert-Buck, M.D., Ph.D.  
CDNA Library Preparation: Life Technologies, Inc.  
CDNA Library Arrayed by: Greg Lennon, Ph.D.  
DNA Sequencing by: Washington University Genome Sequencing Center  
Clone distribution: NCI-CGAP clone distribution information can be  
found through the I.M.A.G.E. Consortium/LLNL at:  
[www.bio.llnl.gov/dbp/image/image.html](http://www.bio.llnl.gov/dbp/image/image.html)

FEATURES  
source Seq primer: -40UP from g1bco  
High quality sequence stop: 409.  
Location/Qualifiers  
1..625

/organism="Homo sapiens"  
/note="Organ: Stomach; Vector: PCMV-SpORF; Site\_1: SalI;  
Site\_2: NotI; Cloned unidirectionally. Primer: O190 dt.  
Average insert size 1.69 kb. Life Technologies catalog #:  
11549-011"

/db\_xref="taxon:9606"  
/map="804G01:1:1q31.3-1q32.1"  
/clone="IMAGE:2184450"  
/clone\_lib="NCI-CGAP-Gas4"  
/issue\_type="poorly differentiated adenocarcinoma with  
signet ring cell features"  
/lab\_host="DH10B"  
BASE COUNT 132 a 170 c 165 g 155 t 3 others  
ORIGIN

Query Match 82.0%; Score 168; DB 29; Length 625;  
Best Local Similarity 44.7%; Pred. No. 4,47e-11;  
Matches 21; Conservative 16; Mismatches 10; Indels 0; Gaps 0;  
DB 525 GTCCGACCTGTGAGAACCTTCTTCTTCACCGCTGAGTTT 571  
CP 48 RTTNCNWSYTGNNACACCTCTCTCTTCANCCNMSNMTTYY 2

RESULT 7  
LOCUS AA560673 280 bp mRNA EST 18-AUG-1997  
DEFINITION V177B09.r1 Knowles Solter mouse blastocyst B1 Mus musculus cDNA  
clone IMAGE:977657 5' similar to WP:C42D8.4 CE04205 DNA-BINDING  
PROTEIN ; mRNA sequence.  
ACCESSION AA560673  
NID 92332138  
VERSION AA560673.1 GI:2332138  
KEYWORDS EST.  
SOURCE house mouse.  
ORGANISM Mus musculus  
Eukaryota: Metazoa: Chordata: Craniata: Vertebrata: Mammalia:  
Eutheria: Rodentia: Sciurognathi: Muridae: Murinae: Mus.

REFERENCE 1 (bases 1 to 280)  
AUTHORS Marra, M., Hillier, L., Allen, M., Bowles, M., Dietrich, N., Dubuque, T.,  
Geisler, S., Kucaba, T., Lacy, M., Le, M., Martin, J., Morris, M.,  
Schellenberg, K., Steptoe, M., Tan, F., Underwood, K., Moore, B.,  
Theising, B., Wyllie, T., Lennon, G., Soares, B., Wilson, R. and  
Waterston, R.  
TITLE The WashU-HHMI Mouse EST Project  
JOURNAL Unpublished (1996)  
COMMENT On Apr 14, 1993 this sequence version replaced gi:716934.  
Contact: Marra M/Mouse EST Project

WashU-HHMI Mouse EST Project  
Washington University School of Medicine  
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108  
Tel: 314 286 1800  
Fax: 314 286 1810  
Email: mouseest@watson.wustl.edu  
This clone is available royalty-free through LLNL; contact the  
IMAGE Consortium ([info@image.llnl.gov](mailto:info@image.llnl.gov)) for further information.  
MG1:558385  
High quality sequence stop: 276.  
Location/Qualifiers  
1..280

FEATURES  
source /organism="Mus musculus"  
/strain="B6D2 F1/7"  
/note="Organ: embryo; Vector: pSPORT; Site\_1: NotI;  
Site\_2: SalI; Cloned unidirectionally from mRNA prepared  
from 800 blastocysts. Primer: SalI(dT):  
5'-CGGTGACCGTCGACCGCTTTTCTTTT-3'. cDNAs were  
cloned into the NotI/SalI sites of a pSPORT vector (Life  
Technologies). Two different size selections: B1 (larger  
inserts) and B3.  
/db\_xref="taxon:10090"  
/map="655G06:9"  
/clone="IMAGE:977657"  
/clone\_lib="Knowles Solter mouse blastocyst B1"  
/issue\_type="blastocyst"  
/dev\_stage="embryo (pre-implantation)"  
/lab\_host="DH10B"  
BASE COUNT 79 a 59 c 90 g 52 t  
ORIGIN

Query Match 79.5%; Score 163; DB 14; Length 280;  
Best Local Similarity 47.9%; Pred. No. 4,25e-10;  
Matches 23; Conservative 15; Mismatches 10; Indels 0; Gaps 0;  
DB 153 AAGACTCTAGTGGCTGGAAGAGAGAGCTTGAGAGTGGGAAT 200  
CY 1 AARAAWMSNWSNGNTGAGARAGARAGRGNTYNCARMSMGNAY 48

RESULT 8  
LOCUS A1048101 476 bp mRNA EST 08-JUL-1998  
DEFINITION vnz3e03.r1 Knowles Solter mouse blastocyst B1 Mus musculus cDNA  
clone IMAGE:1022044 5' similar to TR:O35275 O35275 ENS  
TRANSCRIPTION FACTOR.; mRNA sequence.  
ACCESSION A1048101  
NID 93296388  
VERSION A1048101.1 GI:3296388  
KEYWORDS EST.  
SOURCE house mouse.  
ORGANISM Mus musculus  
Eukaryota: Metazoa: Chordata: Craniata: Vertebrata: Mammalia:  
Eutheria: Rodentia: Sciurognathi: Muridae: Murinae: Mus.

REFERENCE 1 (bases 1 to 476)  
AUTHORS Marra, M., Hillier, L., Allen, M., Bowles, M., Dietrich, N., Dubuque, T.,  
Geisler, S., Kucaba, T., Lacy, M., Le, M., Martin, J., Morris, M.,  
Schellenberg, K., Steptoe, M., Tan, F., Underwood, K., Moore, B.,  
Theising, B., Wyllie, T., Lennon, G., Soares, B., Wilson, R. and  
Waterston, R.  
TITLE The WashU-HHMI Mouse EST Project  
JOURNAL Unpublished (1996)  
COMMENT On Apr 14, 1993 this sequence version replaced gi:716933.

Contact: Marra M/Mouse EST Project  
WashU-HHMI Mouse EST Project  
Washington University School of Medicine  
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108  
Tel: 314 286 1800  
Fax: 314 286 1810  
Email: mouseest@watson.wustl.edu  
This clone is available royalty-free through LLNL; contact the  
IMAGE Consortium ([info@image.llnl.gov](mailto:info@image.llnl.gov)) for further information.  
MG1:572820



BASE COUNT	121 a	115 c	156 g	103 t	1 others
ORIGIN	/Lab_host="DH10B"				
Query Match	79.5%	Score 163;	DB 14;	Length 496;	
Best Local	Similarity 47.9%	Pred. No. 4,25e-10;			
Matches	23;	Conservative 15;	Mismatches 10;	Indels 0;	Gaps 0;
Db	163	AAGAAGCTCTAGTGGCTGGAAGAGAAGACGTTGGACAGATCGGAT	210		
Oy	1	AARAAYMSNWSNGNTGGAARGARGARGAGTNYTCARMSNMGNAAY	48		
RESULT	11				
LOCUS	FI4618	159 bp	MRNA	EST	09-SEP-1996
DEFINITION	SS04H10 Porcine small intestine cDNA library	Sus scrofa cDNA clone			
ACCESSION	U4618	oh10 similar to E74-1like factor Elf-1, mRNA sequence.			
NID	9972496				
KEYWORDS	FI4618.1	GI:972496			
SOURCE	EST.				
ORGANISM	Pig.				
	Sus scrofa				
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;				
	Eutheria; Artiodactyla; Suiformes; Suidae; Suidae; Sus.				
REFERENCE	1 (bases 1 to 159)				
AUTHORS	Wintero,A.K., Fredholm,M. and Davies,W.				
TITLE	Evaluation and characterization of a porcine small intestine cDNA				
	library: analysis of 839 clones				
JOURNAL	Mamm. Genome 7 (7), 509-517 (1996)				
MEDLINE	96327607				
COMMENT	Contact: A.K. Winteroe Department of Animal Science and Animal Health, Division of Animal Genetics, The Royal Veterinary and Agricultural University Bulowsvej 13, 1870 Frederiksberg C, Denmark homolog to human E74-1like factor Elf-1. Location/Qualifiers 1..159 /organism="Sus scrofa" /note="directionally cloned cDNA in XLI-Blue MRF" /db_xref="taxon:9823" /clone="oh10" /clone_1lb="Porcine small intestine cDNA library"				
FEATURES					
Source					
BASE COUNT	43 a	36 c	57 g	23 t	
ORIGIN					
Query Match	71.7%	Score 147;	DB 31;	Length 159;	
Best Local	Similarity 45.8%	Pred. No. 4,69e-07;			
Matches	22;	Conservative 14;	Mismatches 12;	Indels 0;	Gaps 0;
Db	112	AAGAAGCTCAGCGGCTGCAGAGAAGAGTGTGCGGCGCGGAGAC	159		
Oy	1	AARAAYMSNWSNGNTGGAARGARGARGAGTNYTCARMSNMGNAAY	48		
RESULT	12				
LOCUS	C06679	472 bp	MRNA	EST	23-AUG-1996
DEFINITION	C06679 Rat pancreatic islet cDNA	Rattus norvegicus cDNA similar to			
ACCESSION	C06679	ecdysome-induced protein E74A, mRNA sequence.			
NID	91503455				
VERSION	C06679.1	GI:1503455			
KEYWORDS	EST.				
SOURCE	Norway rat.				
ORGANISM	Rattus norvegicus				
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;				
	Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.				
REFERENCE	1 (bases 1 to 472)				
AUTHORS	Takeda,J.				
TITLE	Large scale collection of expressed sequence tags (ESTs) from rat				
JOURNAL	pancreatic islet cDNA library				
	(unpublished (1996))				

On Apr 14, 1993 this sequence version replaced g1:785662.

Comment:  
Contact: Jun Takeda  
Institute for Molecular and Cellular Regulation, Gunma University  
3-39-15 Showa-machi, Maebashi Gunma 371, Japan  
Tel: 272-20-8856  
Fax: 272-20-8896  
Email: jtakeda@sb.gunma-u.ac.jp.  
Location/Qualifiers

FEATURES  
source  
1..472  
/organism="Rattus norvegicus"  
/note="Vector: Lambda ZAP.R; Site\_1: EcoRI; Site\_2: XhoI;  
mRNA was prepared from normal rat islets. cDNA was  
directionally synthesized from the xho I in the vector to  
the EcoRI site"  
/map="7; 17q21"  
/clone\_1lb="Rat pancreatic islet cDNA"  
/tissue\_type="pancreatic islet"

BASE COUNT 122 a 112 c 132 g 98 t 8 others

ORIGIN

Query Match 69.8%; Score 143; DB 35; Length 472;  
Best Local Similarity 46.5%; Pred. No. 2,556-06;  
Matches 20; Conservative 14; Mismatches 9; Indels 0; Gaps 0;

Db 269 AAGAAGCTCCAGTGCCTGAGAGACAGAGCTTGAGAGACTC 311  
Oy 1 AARAAVWSNWSNGCNTGGARGARGARGARTNTYNCARWENM 43  
|||||::: |||||:::|||||::: |:::  
LOCUS AA085539 496 bp mRNA EST 01-AUG-1997  
DEFINITION zn44g11.1 Striategene Hela cell s3 937216 Homo sapiens cDNA clone  
IMAGE:550340 5', mRNA sequence.  
ACCESSION AA085539  
NID g1628748  
VERSION AA085539.1 GI:1628748  
KEYWORDS EST.  
SOURCE human.  
ORGANISM Homo sapiens  
Eukaryota; Chordata; Craniata; Vertebrata; Mammalia;  
Eutheria; Primates; Catarrhini; Homnidae; Homo.  
REFERENCE 1 (bases 1 to 496)  
AUTHORS Hillier,L., Clark,N., Dubuque,T., Elliston,K., Hawkins,M.,  
Holman,M., Holtzman,M., Kucaba,T., Le,M., Lennon,G., Marra,M.,  
Parsons,J., Rifkin,L., Rohlfing,T., Tan,F., Trevasakis,E.,  
Waterson,R., Williamson,A., Wohlmann,P. and Wilson,R.  
WashU-Merck EST Project  
Unpublished (1995)  
On Apr 14, 1993 this sequence version replaced g1:837511.

TITLE  
JOURNAL  
COMMENT

Contact: Wilson RK  
Washington University School of Medicine  
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108  
Tel: 314 286 1800  
Fax: 314 286 1810  
Email: est@watson.wustl.edu  
This clone is available royalty-free through LNL ; contact the  
IMAGE Consortium (infoimage.lnl.gov) for further information.  
Insert Length: 857 Std Error: 0.00  
Seq primer: -28M13 rev2 from Amersham  
High quality sequence stop: 395.  
Location/Qualifiers  
1..496  
/organism="Homo sapiens"  
/note="Vector: pBluescript SK+; Site\_1: EcoRI; Site\_2:  
XhoI; Cloned unidirectionally. Primer: Oligo dT. Hela S3  
epithelial carcinoma cells grown to semi-confluency  
without induction. Average insert size: 1.5 kb; Uni-ZAP XR  
vector. -5' adaptor sequence: 5' GAATTCGCCACGAG 3' -3'  
adaptor sequence: 5' CTCGACGTCTTTTCTTTTTTTTTTTT 3'"  
/\_db\_xref="GBD:3928858"

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/db_xref="taxon:9606"  
/clone="IMAGE:550340"  
/clone_lib="Stratagene HeLa cell S3 937216"  
/sex="female"  
/dev_stage="HeLa S3 cell line"  
/lab_host="SOLR (kanamycin resistant)"  
BASE COUNT      105 a       137 c     144 g     109 t    1 others  
ORIGIN
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Query Match 69.8%; Score 143; DB 36; Length 496;  
Best Local Similarity 48.9%; Pred. No. 2,56e-06;  
Matches 23; Conservative 16; Mismatches 7; Indels 1; Gaps 1;

Dd 450 GTTCGACATCTGGAGAACTT-TTCGTCCCTCAGCGCCGTGAATT 495  
:  
::||| : ::||| | : ||| : ||| | ||| | | : ::||| :

Cp 48 RTTNCKNSWYTGARNACYCYCTCYCTTCANCCNWSMRYTYT 2

```
RESULT         14  
LOCUS           H27938             253 bp        mRNA            EST              13-JUL-1995  
DEFINITION     Y138F12.r1 Soares breast 3kbHst Homo sapiens CDNA clone  
ACCESSION      H27938  
                  IMAGE:162479 5' , mRNA sequence.  
NID             9898291  
VERSION        H27938.1 GI:898291  
KEYWORDS       EST.  
SOURCE         human.  
ORGANISM       Homo sapiens  
                   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia;  
                   Eutheria; Primates; Catarrhini; Homnidae; Homo.  
REFERENCE      1 (bases 1 to 253)  
                 Hillier,L., Clark,N., Dubugue,T., Elliston,K., Hawkins,M.,  
                 Holman,M., Hultman,M., Kucaba,T., Le,M., Lennon,G., Marra,M.,  
                 Parsons,J., Rifkin,L., Rohlfing,T., Soares,M., Tan,F.,  
                 Trevasik,E., Waterston,R., Williamson,A., Wohlmann,P. and  
                 Wilson.R.  
AUTHORS         The WashU-Merck EST Project  
                   Unpublished (1995)  
TITLE           On Apr 18, 1995 this sequence version replaced gi:775334.

JOURNAL  
COMMENT



Contact: Wilson RK  
Washington University School of Medicine  
444 Forest Park Parkway, Box 8501, St. Louis, MO 63108  
Tel: 314 286 1800  
Fax: 314 286 1810  
Email: est@watson.wustl.edu  
Insert Size: 780  
High quality sequence stops: 71  
Source: IMAGE Consortium, LLNL  
This clone is available royalty-free through LLNL ; contact the  
IMAGE Consortium (info@image.llnl.gov) for further information.  
Insrt length: 780 Std Error: 0.00  
Seq primer: MI3RP1  
High quality sequence stop: 71.  
Location/Qualifiers  
1 . 253  
/organism="Homo sapiens"  
/note="Organ: breast; Vector: pTZ19D (Pharmacia) with a modified polylinker; Site_1: Not I; site_2: Eco RI; 1st strand cDNA was primed with a Not I - oligo(dT) primer [5'- TGTTCACAATCTGAAGTAGGAGGCCGCCTTTTTTTTTTTTTTT 3'] , double-stranded cDNA was ligated to Eco RI adaptors (Pharmacica), digested with Not I and cloned into the Not I and Eco RI sites of a modified pTZ19 vector (Pharmacia). Library went through one round of normalization to a Cot = 20. Library constructed by Bento Soares and W.Patlma Bonaído."



FEATURES  
source  
_db_xref="GB:576743"  
_db_xref="taxon:9606"  
_clone="IMAGE:162479"  
_clone_lib="Soares breast 3kbHst"  
_sex="female"  
/dev_stage="adult"


```

[illegible]

Tue Oct 26 15:35:47 1999

US-08-978-217-12.rst

Page 8

Search completed: Fri Oct 22 08:20:43 1999  
Job time : 1217 secs.